

AMENDMENTS TO THE ABSTRACT

Please add the following paragraph for the abstract:

Biosensor circuit arrangement including a substrate, a sensor element formed in or on a surface region of the substrate with a physical parameter, which is coupled to a substance to be examined, the type of coupling having a resistive component, the sensor element having an electrically conductive sensor electrode that is coupled to the substance to be examined, the sensor element having a measuring transistor the gate terminal of which is coupled to the electrically conductive sensor electrode, and the physical parameter being the threshold voltage of the measuring transistor, and a calibration device formed in or on the substrate, the calibration device being set up such that it is used to at least partly compensate for an alteration of the value of the physical parameter of the sensor element.